DEPARTMENT OF HORSE-BREEDING OPERATIONS.

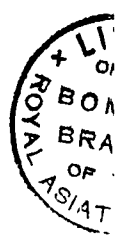
ANNUAL ADMINISTRATION REPORT

OF THE

BOMBAY PRESIDENCY

FOR THE

OFFICIAL YEAR 1888-89.



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No. 860 of 1889.

To

THE SECRETARY TO GOVERNMENT,
REVENUE DEPARTMENT,
Bombay.

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

SIR,

I have the honour to submit, for the consideration of His Excellency the Governor in Council, the Annual Administration Report of the Department of Horse-breeding Operations in the Bombay Presidency and Beluchistán for the official year 1888-89.

I have the honour to be,
Sir,
Your most obedient Servant,
J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

13. On the 18th of May I arrived at Kopargaon, and branded 2 mares for horse and 38 for pony. The mares were a middling lot. The Arab stallion "Clipper" was in good condition.

Kopargaon, 18th May 1888.

14. From Kopargaon I proceeded to Yeola in the Násik District, and branded 46 mares for pony and rejected 10. The stallion "Pilgrim" was in excellent condition, but reported to be very vicious. The stable was under construction.

Yeola, 20th May 1888.

15. I arrived here on the 22nd May, branded 17 mares for pony, and rejected 27. The stallion "Cruiser" was standing in a chappar near the old fort, and the new stable was under construction.

Málegaon, 22nd May 1888.

16. From Málegaon I proceeded *vid* Manmád to Nándgaon, where I branded 35 mares for pony, and rejected 13. The stallion "Cyclone" was in good condition. The mares here are very small.

Nándgaon, 23rd May 1888.

17. I visited Chálisgaon, in Khándesh, on the 25th May, and was much disappointed on seeing the poor number presented for my inspection. The stallion "Pinto" was in fair condition.

Chálisgaon, 25th May 1888.

18. From Chálisgaon I marched to Dhulia, the chief town of the Khándesh District. Here the Mámlatdár of the place brought 67 mares for my inspection, and I branded 47 for pony, and rejected 20. The stallion "Lieutenant" standing here was suffering from liver disease, and his sheath was in a filthy state. I recommended treatment, &c.

Dhulia, 27th May 1888.

19. Here only 4 mares were brought forward, and as they were a poor lot I branded 1. I am afraid due notice of my coming there was not given to the breeders of the surrounding villages. The stallion "Multum" is considered to be vicious; but I consider it due to insufficient exercise, and orders have been given that he should get more.

Násik, 2nd June 1888.

20. From Násik I returned to Poona, and remained there till the 27th of October. During this time I branded 19 mares for horse and 7 for pony. While here I was engaged in office work. I was on leave from 15th August to 20th September 1888.

21. On the 25th of September I assisted at the Horse Show in Poona. The Show was a success. I took this opportunity of having all the stallions in the district brought in for my inspection. The marginally noted stallions were found useless for stud purposes, for reasons given against each of them, and were recommended to be cast and sold.

Punch, bad stock-getter.
Siváji, do.
Hyder, bad constitution.

22. I started on my tour in Gujarát on the 27th of October, due notice of my coming having been given to the breeders by the Political Superintendent of Pálanpur. I reached Deesa on the 30th, inspected 18 mares, and branded 14 for pony, and rejected 4. The pony stallion "Majeeb" was in fair condition.

Deesa, 30th October 1888.

Ahmedabad, 1st to 6th November 1888.

23. From Deesa I returned to Ahmedabad. Here I inspected the Government stallions noted in the margin, and found them in good condition, with the exception of the following three:—

Hampton	...	T.B.E.	Angrya	...	Arab
Inspector	...	Do.	Hollander	...	Do.
January	...	Arab.	Kohinoor	...	Do.
Tahlim	...	Do.			

"Hollander"—Impotent.

"Inspector"—Suffering from incurable disease of sheath.

"Midnight"—Suffering from chronic debility.

"Hollander" was destroyed in accordance with conditions made with the donor when the horse was given to the Department. "Inspector" and "Midnight" were cast and sold.

Government Resolution No. 8051 of 3rd December 1888.

Mehmdabad, 7thNovember 1888.

24. I next proceeded to Mehmadabad, where I inspected 17 mares, branded 1 for horse and 13 for pony. Thence I went to Nadiád, where I branded 6 mares for pony.

Nadiád, 9th November 1883.

A'nand, 11th November 1888.

25. At A'nand, 5 mares were branded for pony.

Dákor, 13th November 1888.

26. At Dákor I inspected 7 mares and branded 5 for pony.

Kaira, 15th November 1888.

27. Out of the 7 mares presented for my inspection I branded 6 for pony.

Wásad, 16th November 1888.

28. At Wásad 2 mares were collected for my inspection, and I rejected them, as they were in poor condition.

29. I visited all the places mentioned by the Collector of Kaira, but was disappointed in not getting sufficient number of mares for my inspection.

30. I proceeded here on the 20th November and inspected the stallions at the Depôt. I found "Bahádur" suffering from disease of sheath and penis, and "Tomtit" from incurable strained hock; both were recommended to be cast and sold. The other stallions were in good condition.

Ahmednagar, 20th November 1888.

31. I visited this place for the purpose of inspecting the old stables, with a view to placing two Government stallions there, so as to put them within easy reach of the mares of the surrounding villages. The stables are well suited. The chief Commissariat officer had agreed to provide the accommodation asked for, provided the arrangements as regards feed, &c., could be made by this Department. I then asked the Collector of Poona whether he would take the responsibility of the well-being of the stallions if placed at Alligaon and arrange for their keep, &c. In reply he stated that it was quite impossible for the Police to undertake the responsibility of looking after the stallions, for the chief constable of the táluka has his head-quarters at Ghodnadi, a distance of some 16 or 18 miles. I therefore gave up the idea of making it a stallion stand. Here I branded 4 mares for horse and 14 for pony.

Alligaon, 25th November 1888.

Sirúr, 29th November 1888.

32. I next went to Sirúr and branded 8 mares for pony. Most of the mares brought forward were in poor condition.

33. On my return to Poona on the 3rd of December I branded 3 mares for pony.

34. I attended the Horse Show held here. The total number of horses exhibited was 355. Last year the number was 470. The falling off is possibly due to the scarcity of forage and to the absence of the Political Agent and Pránt officers. As regards numbers, the Show compared favourably with that held in 1885 and former years. The mares belonging to Girássiás and cultivators exhibited in brood mares' classes were a fair lot. I inspected the marginally noted stallions, and distributed them as follows:—

Rájkot, 9th to 17th December 1888.

Cottenham	...	T. B. E.
Harvester	...	Arab
Lachin	...	Do.
Mootrib	...	Do.

"Cottenham" to Deesa; "Harvester," "Lachin" and "Mootrib" to Ahmedabad.

At the request of the Officer Commanding 1st Bombay Lancers, Deesa, I sent "Cottenham" there, and Colonel Hayland promises to make efforts to get mares in, and hopes that many will come this year.

Jacobabad, 7th to 9th January 1889.

35. I then proceeded to Jacobabad to attend the Horse Show. I inspected 164 mares, branded 45 for horse, 2 for pony, and 17 for donkey. The mares were a fine lot. I also inspected the stallions noted in the margin, and found them in good condition.

Contract	...	N. T. E.	Amir	...	Arab
Cupid	...	Do.	Nicholas	...	Do.
Sir Peter	...	Do.	Bagput	...	Donkey.
Planet	...	Do.	Colombo	...	Do.
Sir Frank	...	Arab	Rámghát	...	Do.
Gold Mohor	...	Do.	Jack	...	Do.
Glencoe	...	Do.	Kamarputta		Do.
Mars	...	Do.	Hafizgunj	...	Do.

36. It was decided to hold alternate Shows at Jacobabad and Shikárpur, and this was the first Show of the kind. The Show was a decided success as regards the number and quality of the exhibits. About 37 remounts were purchased by Major Chalmers, the Punjáb Remount Agent, and the Officers Commanding the Cavalry Regiment at Jacobabad; also 9 mules were purchased by Captain Picot, Assistant Commissary General.

Government Resolution No. 6607, dated 30th October 1888.

37. On the recommendation of Mr. Giles I visited this place for the purpose of inspecting and branding mares; 6 were branded for horse and 18 for donkey, and 60 rejected. The mares were a poor lot, as will be seen from the number rejected.

Thull, 14th January 1889.

38. I arrived here on the 20th, but only 14 mares were brought forward; and as they were a very poor lot, I only branded 1 for horse and 10 for donkey.

Radhan, 20th January 1889.

39. Here 500 mares were collected for my inspection, and I branded 34 for horse, rejecting the rest.

Lárkhána, 22nd January 1889.

40. I arrived at Madeji on the 24th January. Inspected 51 mares, branded 5 for horse, and rejected 46. The mares were a wretched lot.

Madeji, 24th January 1889.

41. On the 26th January I proceeded to Shikárpur and inspected the stallions noted in the margin, and found them in good condition; only 3 mares were branded for horse, rejecting 40.

Shikárpur, 26th January 1888.

Trustee	...	N. T. E.	Bhag	...	D. S.
Sobersides	...	T. B. E.	Kullu	...	Do.
Moti	...	D. S.	Khandoba	...	Do.

42. At Humayun on the 27th January I branded 4 mares for horse and 1 for donkey.

Humayun, 27th January 1889.

43. At Rohri on the 29th January I branded 4 mares for horse.

44. My next visit was to Ghotki, where I branded 3 mares for horse and 1 for donkey.

Ghotki, 30th January 1889.

45. I arrived here on the 9th and assisted at the Horse Show. The Show was a great success.

Sibi, 9th to 16th February 1889.

Beaver	...	Arab.	Duncan	...	T. B. E.
Songster	...	T. B. E.	Essa bin Curtas	...	Arab.
Cyprus	...	Arab.	Brunno	...	N. T. E.
Kohilan	...	Do.	Sir Francis	...	T. B. E.
Doctor	...	T. B. E.	Auchencruive	...	Do.
Sir James	...	N. T. E.	Jasper.	...	Arab.
Shrewsbury.	...	T. B. E.			

46. I inspected the stallions as per margin, and found them in excellent condition.

47. I branded 68 mares for horse and 1 for donkey, and rejected 150.

48. On my way to Bhúj, in Cutch, I visited Hyderabad and inspected the stallions, as per margin. They were in fair condition. The stallion "Paradox" was brought in for my inspection from Thar and Párkar, and I transferred him to Hyderabad.

Hyderabad, 19th February 1889.

Dwárka	...	Arab.
Eureka	...	Do.
Paradox	...	Do.

49. The day selected for the Horse Show was in conjunction with the marriage festivities of Prince Kaluba, the brother of His Highness the Ráo. Many exhibits were expected to come, but only 250 were classified. The Show was an improvement on that held last year. The exhibits in the Remount class were a very middling lot. There were some good youngsters, all the produce of Government sires "Despatch" and "Gáikwár", both Norfolk Trotter stallions. I inspected the marginally noted stallions and found them in good condition, with the exception of "Torna", who was suffering from chronic disease of the testicles. I recommended him to be castrated and sold as useless for stud purposes. Only 4 mares were branded for horse.

Bhúj in Cutch, 2nd to 7th March.

Despatch	...	N. T. E.
Elzevier	...	T. B. E.
Torna	...	Arab.
Glencoe	...	Do.
Lord Napier	...	Do.

50. On my way to Ahmedabad I halted here, and inspected the stables for the purpose of selecting a horse for the Rájpipla State, but did not succeed in getting one. On the 11th of March I attended the meeting of the Veterinary College.

Bombay, 12th to 17th February 1889.

51. The Show here was held on the 20th February and following days. The number of exhibits this year showed an increase of 19 compared with those of last year, and it is satisfactory to note that most of the exhibitors were cultivators and *bonâ-fide* breeders. Many owners had parted with their stock, owing to the dearness of forage. There were 56 entries in the Remount class. Notification was given to the effect that officers of several cavalry regiments and police corps would attend the Show with a view to purchasing remounts; also the fact that Government was prepared to buy young stock over one year suitable for remounts. But it appears that dealers did not give any credit to this, having been disappointed in previous years. However, 14 remounts were procured for cavalry and police, and 3 yearlings were purchased by Captain Webb, the Remount Agent, and sent to Hapur.

Ahmedabad, 20th to 26th February 1889.

Hampton ...	... T. B. E.	Hassan.
January ...	... Arab.	Scindia.
Táhlim ...	... Do.	Rufus.
A'ngrya ...	... Do.	Melton.
Kohinoor. ...	... Do.	

52. Here I branded 3 mares for horse and 60 for pony. I also inspected the stallions noted in the margin, and found them in excellent condition.

General Remarks.

53. The conclusion that must be arrived at from a comprehensive examination of horse-breeding operations in the Bombay Presidency during the past year is that the progress is satisfactory in Sind, but there is no marked progress either in Gújarát or the Deccan. The reasons for this latter are in many cases, however, of a temporary character; especially the scarcity of forage in many districts has been unfavourable in various ways. In bad years the owners of mares show a most disheartening amount of apathy, and they sadly neglect their stock, which falls off very much in condition. The young stock is stunted in growth and frequently dies, or else it is prematurely sold off for a mere song, so that the owner finds no profits in breeding, and does not care to trouble himself in future years. Fortunately many of these youngsters are bought up by enterprising "Daláls", who take them to places where grazing is to be had. I have not yet succeeded in thoroughly establishing that point, or in ascertaining whether there are any particular places where the bought-up foals from the different districts are accumulated. I think it probable that these places vary according to the local rainfall, and have noted this matter for careful investigation during the coming year.

54. With regard to the mares. The low condition brought about by scarcity of food is an extremely serious matter; for it not only prevents many of them from coming into season, holding or carrying their foals to the proper time and developing them properly before birth, but also affects their fitness for breeding purposes in coming years. As every horseman knows, once an animal thoroughly gets below par, a considerable length of time, care and good feeding are essential to bring the animal into good condition again. But, unfortunately, these mares never get the requisite care, and seldom the good feeding necessary; hence we cannot be surprised at many of them turning out barren. Expensiveness of fodder in any district not only renders my tour more costly to Government, but also renders it less valuable in results, because at such times the owners of mares will not travel far from home, and if they do, their mares are found in such a wretched state that it would be injudicious to give the brand, or allow them to have the services of the stallions. These reasons will fully explain why fewer mares have been branded in this than in some previous years. They will also fully explain why I was not so constantly on the move touring, as might appear advisable to any one not fully aware of the emergencies under which horse-breeding operations have to be carried on in some parts of the

Bombay Presidency. The Government grant in the past year for travelling expenses in the Department was almost finished. It seems to me that very few suitable mares remain unbranded in the districts, but in future years as the fillies out of the mares originally branded become old enough they will be brought forward for the brand. It is to be feared, from certain evidence which I have to hand, that the orders of Government on the subject of the purchase of branded mares as remounts by purchasing officers of cavalry regiments have not been fully attended to, and it would be interesting and instructive if Government would obtain through the proper channel a return of the number of country-bred mares and of mares carrying the Government brand (with the age of each at the time of purchase) now actually in the Bombay Cavalry regiments; and should the number of branded troopers prove to be numerous, a statement as to what precautions have been taken to ensure that all branded mares purchased as remounts have been found to be barren. Such a return would be specially valuable at the present time, as this Department has in hand, as part of its work for the coming year, the subject of revision of the register of branded mares, with a view to determination of how many of these which have received the brand at any time cannot now be considered as at all likely to contribute to the future horse wealth of the country. The coverings of mares would certainly have been much more numerous but for the extremely poor condition of the mares and for the unwillingness of the owners to bring them to the stand in such poor condition.

55. As regards the results of coverings, although they will undoubtedly admit of considerable improvement, it may be observed from the returns that the percentage in 1887-88 was higher in this Presidency than in Bengal or in the Punjáb. It is probable that the returns for the year under report will give a like result.

56. I have to remark that Bijápur and Dhárwár districts are somewhat backward in making full use of Government stallions. I am not yet prepared to explain the reason of this, but will make the matter a subject of investigation.

57. This year the Government stallions were withdrawn from Káthiáwár, which increases the stallion power available for other places. The measure was adopted after careful consideration, and for reasons which I need not enter into here.

58. Mule-breeding is now practically confined to Sind, there only being 1 donkey stallion in the Presidency proper. It will be observed from the returns that several mules were purchased for Government purposes at Jacobabad, and I look forward hopefully to the prospects of mule-breeding in Sind.

59. During the year, Horse Shows were held at Poona, Rájkot, Bhúj, Jacobabad and Sibi, and proved successful in the main and popular; a number of Shows were held in Native States; and as these have been contrasted with the Government Shows, rather to the detriment of the latter, I think it would be well that I visit some of them during 1889-90, so as to see whether the comparisons are well founded.

60. *Remounts.*—This year several purchases were made by the Remount Department and a number by regimental officers, not only for the Bombay but also for the Punjáb Cavalry, so that a considerable number of remounts, the produce of Government sires, now enter the service. It is certain also that large numbers find their way into the cavalry of Native States.

61. The nursery system for young stock with a view to providing remounts for Government service has this year come into force. I was instructed to pick up any likely youngsters I come across in my tours; but, not being provided with money for the purpose, was not in a position to do so. However, Captain Webb and Major Chalmers bought some and had to send them to Bengal and the Punjáb, because there is as yet no nursery in this Presidency. Remount agents have attended at most of the Shows, but not, I regret to say, at all.

62. The Norfolk Trotter stallion seems to be steadily growing in public favour, and his bone and substance will prove more and more evident in the young stock of the Presidency in coming years. The Beluchis especially seem to take to this class of stallion.

63. Castration is decreasing in frequency, probably because the classes for geldings have to an extent been done away with, and the money prizes for them withdrawn or reduced. The salutris find great difficulty in inducing owners of colts to have them operated on.

64. Finally, I must remark that throughout the Presidency the local officers have, in the majority of cases, carefully advanced horse-breeding interests. I may be permitted to specially draw the attention of Government to the valuable aid which I have received from Mr. Giles, the Deputy Commissioner of Jacobabad, Colonel Hogg, Commandant Poona Horse, and Mr. Adams, the District Superintendent of Police, Ahmedabad.

Statistical Report.

Horse-breeding Operations.

Stallions, number of.

65. At the commencement of the year under report the number and classes of horse stallions present are shown below :—

	H.	P.
Thorough-bred English	11	0
Half-bred English and Norfolk Trotters	12	0
Arabs	36	43
Pegu	0	1
Total ...	59	44
	103	

Increase received during the year.

66. The undermentioned stallions were received during the year :—

From England.

	H.	P.	Total.
Thorough-bred English	2	0	=2
Half-bred English and Norfolk Trotters ...	2	0	—2
By purchase—			
Arab	1	0	=1
Total ...	5	0	=5

The stallions received from England were sent to Ahmednagar Depôt for acclimatization. The Arab was first sent to Ahmednagar and then transferred to Poona District.

Decrease—casualties.

67. Three stallions died and 1 was destroyed during the year, as shown in Appendix I, with causes—from snake-bite 1, from inflammation of the lungs 1, from the effects of the operation of castration 1.

Government Resolution No. 5570 in the Revenue Department, of 17th August 1888.

This horse was suffering from disease of the testicles, and was ordered to be castrated and sold on recovery. The one destroyed was presented to Government by Mr. Alfred Keyser, on condition that he be destroyed when he becomes unfit for stud purposes.

Government Resolution No. 3136 of 21st May 1887.

The percentage of death was 3·12, against 4·85 in the year before The general percentage of casualties is 4·16, against 4·85 in 1887-88.

Sales, &c.

68. In Appendix II will be found noted the sales of stallions during the year. In all 8 stallions were sold. Four were sold for impotence, and the others from causes rendering them unfit for stud purposes. In addition to this, 1 thorough-bred stallion from Beluchistán died from an attack of nephrites; but he is not included in this, for reasons given in paragraph 63 of my last annual report.

Number of stallions present.

69. At the close of the year under report the number of stallions remaining on the registers was as follows :—

	H.	P.	Total
Thorough-bred English	11	0	=11
Half-bred English, Norfolk Trotters	12	0	=12
Arabs	35	37	=72
Pegu	0	1	= 1
Total...	58	38	=96

70. The classification and distribution of these horses will be found in Appendix III, the summary of which is noted below :—

Classification.

Classification.

Very good	62
Good	40
Fair	4
Bad	3
Total ...	109

The above includes the stallions serving in Beluchistán. The stallions classed as bad are ordered to be cast and sold.

71. The number of stallions distributed in the several breeding districts, during the last eleven years, is shown in the following table :—

Distribution.

Provinces.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.
Deccan	27	41	40	45	47	41	37	45	55	58	55
Gujarát	17	22	20	24	20	18	18	19	20	17	14
Sind and Cutch... ...	12	12	9	9	13	16	17	17	28	28	27
Beluchistán	...	...	...	...	...	4	3	8	19	14	13
Total ...	56	75	69	78	80	79	75	89	122	117	109

72. Out of the total strength of stallions, *viz.* 109, including Beluchistán, 100 were employed at stud work ; the others were either at the Depôt for acclimatization, or temporarily unfit.

Strength of stallions.

73. Horse-breeding continues developing in Deccan, Sind and Cutch, and Beluchistán. It remains steady in Gujarát.

Stallions, demand for.

The stallions in Káthiáwár have been removed to Ahmedabad and Deesa, in accordance with paragraph 3 of the marginally noted Government Resolution.

Government Resolution No. 7705, dated 19th November 1888.

74. It will not be necessary to buy more stallions during the current year, as the present strength is sufficient.

Future supply of stallions.

75. The cost of feed, keep and attendants, including transit charges, construction and repairs to stables, and cost of gear and clothing, &c., &c., will be found in Appendix IV.

Cost of keep, &c.

The general average during the last eleven years is given below :—

	Rs.	a.	p.
In 1878-79	442	9	0
„ 1879-80	358	5	0
„ 1880-81	301	1	0
„ 1881-82	272	8	7
„ 1882-83	285	9	11
„ 1883-84	319	10	8
„ 1884-85	339	5	3
„ 1885-86	317	6	5
„ 1886-87	341	2	7
„ 1887-88	362	12	5
„ 1888-89	344	3	6

Thus there is a decrease of Rs. 18-8-11 in the general average as compared with the previous year. Only 3 donkey stallions were sent to Sind, and very few horses were transferred within the Presidency Proper : hence the decrease in the expenditure. I will have to make several changes in the stands during the current year. Accordingly the expenditures under this head will be considerably increased.

Map of horse-breeding operations.

76. The names of stallion stands in the districts are shown in the map (*vide* Appendix V) of horse and mule-breeding operations. Horse stands are marked in red, and donkey stands in green.

77. The number, names of stallion stands, the number of branded mares in each district and the number of mares covered at each stand are given in Appendices VI and VII. Information as to where the horses and pony stallions are respectively stationed is given in Appendix VI.

78. Appendices VIII and IX show where horse and donkey stallions were stationed and how many mares they covered during the year under report.

Depôt stables.

79. New stallions are kept at Ahmednagar for acclimatization.

Branded mares, number of.

80. At the end of last year the number of branded mares on the registers was as follows :—

Provinces.	Horse.	Pony.	Total.
Deccan	1,097	4,329	5,426
Gujarát	1,253	761	2,014
Sind and Cutch	1,854	109	1,963
Beluchistán	557	13	570
Total ...	4,761	5,212	9,973

81. During the year under report the following numbers of additional mares were branded and registered :—

Provinces.	Horse.	Pony.	Total.
Deccan	45	420	465
Gujarát	4	109	113
Sind and Cutch	154	2	156
Beluchistán	22	.....	22
Total ...	225	531	756

82. The following branded mares have been removed from the registers, for various reasons :—

Provinces.	Horse.	Pony.	Total.
Deccan, died	11	31	42
Gujarát, do.	9	....	9
Total ...	20	31	51

83. The total number of branded mares present on the 31st March 1889, as shown in Appendix X, was as follows :—

Provinces.	Horse.	Pony.	Total.
Deccan	1,131	4,718	5,849
Gujarát	1,248	870	2,118
Sind and Cutch	2,008	111	2,119
Beluchistán	579	13	592
Total ...	4,966	5,712	10,678

84. The results of the coverings of 1887-88 are given in Appendix XI, but cannot be considered as complete, owing to several districts being without Inspectors.

85. The percentage of produce foaled to mares covered in 1887-88 is given below, with the figures of previous years :—

In 1883-84	24·09
„ 1884-85	34·16
„ 1885-86	34·06
„ 1886-87	34·55
„ 1887-88	37·42
„ 1888-89	37·32

Number of mares covered.

86. During the year under report, 3,282 mares were covered by Government stallions. This shows a decrease of 296 mares if compared with the previous year, which is due to the number of stallions being reduced and for other reasons : see general remarks.

87. The number of branded mares covered by Government stallions, during the last eleven years, is shown below :—

In 1878-79	1,825
„ 1879-80	1,881
„ 1880-81	2,185
„ 1881-82	2,403
„ 1882-83	2,508
„ 1883-84	1,792
„ 1884-85	1,884
„ 1885-86	2,317
„ 1886-87	2,765
„ 1887-88	3,578
„ 1888-89	3,282

88. The average of mares covered per stallion employed during the last eleven years has been as follows :—

1878-79	34·00
1879-80	33·24
1880-81	33·70
1881-82	33·94
1882-83	34·20
1883-84	28·00
1884-85	29·88
1885-86	32·16
1886-87	33·03
1887-88	35·10
1888-89	35·53

Cast mares, sale of.

89. No cast mares were sold to *bonâ-fide* breeders for breeding purposes during the year ending 31st March 1889.

Number of country-bred remounts purchased.

90. The number of country-bred remounts purchased during the year under report will be found in Appendix XII.

91. The following is an abstract of the numbers purchased :—

Army Remount Department	3
Bombay Native Cavalry	307
Police, Northern Division	10
„ Southern Division	...
„ Central Division	2
„ in Sind	69
Total ...	390

92. Besides these, several remounts were purchased at Jacobabad and Sibi Horse Shows; but they are not included in this, as they have gone to other Presidencies.

Castration of colts.

93. The number of colts castrated by Government salutris during the year under report is shown in Appendix XIII; the number operated on during the last eight years has been :—

1881-82...	11
1882-83...	71
1883-84...	129
1884-85...	82
1885-86...	122
1886-87...	68
1887-88...	76
1888-89...	98

94. During the year, 98 colts were castrated, showing an increase of 22. The increase in the castration took place in the districts of Poona, Ahmednagar, Ahmedabad, while in Khándesh and Shikárpur there was a slight decrease. This year I received information on this subject from Beluchistán, which was not the case in former years. On the whole I consider the number is steadily increasing.

Mule-breeding Operations.

Donkey stallions, number of.

95. On the 1st April 1888 there were the following numbers and breeds of donkey stallions present on the registers :—

Bokhára	1
Italian	6
Persian	7
Khorásán...	1
Cyprus	1
Kurdistán	1
Arab	4
Total ...	23

Increase during the year.

96. During the year under report the following donkeys were received :—

By transfer from the Bengal Register ...	Italian ...	3
	Arab ...	1
Total ...		4

97. These stallions were serving in Beluchistán, and were added to the Bombay registers by order of the General Superintendent of Horse-breeding Operations. The stallions were placed there as an experiment, but it was found that the breeders in Beluchistán were averse to mule-breeding, and could not be persuaded to bring their mares to the donkey stallions, in spite of the efforts made by local authorities.

Decrease, casualties, &c.

98. The undermentioned donkey stallions have been removed from the registers, for reasons noted below :—

Cyprus, died	1
Persian, sold	1
Total ...	2

99. The casualties are shown in Appendix XIV and the sales in Appendix XV.

Number of donkey stallions present.

100. At the close of the official year under report the number of donkey stallions present was :—

Arab	5
Bokhára	9
Persian	6
Khorásán	1
Cyprus	2
Kurdistán	1
Total ...	25

Classification.

101. The classification of donkey stallions present, as shown in Appendix XVI, is as follows :—

Very good	16
Good	7
Fair	2
Total ...	25

Alteration in donkey stallion stands.

102. One donkey stallion lent to the 3rd Bombay Cavalry was removed to Shikárpur, in Sind, as the Officer Commanding the regiment saw no hopes of breeding mules in the regiment, as was anticipated before the regiment was removed from Neemuch to Poona.

103. The donkey stallions from Ahmednagar and Khándesh were removed to Sind, as their services could not be utilized on account of the religious prejudice of the breeders. The donkey stallions, with the exception of the 1 at Sirúr, are now stationed in Sind. My reasons for doing so were given in my letter No. 474, of 5th April last, to your address, and which have been approved in Government Resolution No. 3819 in the Revenue Department, dated 25th May 1889.

Cost of feed and keep of donkey stallions.

104. The cost of feed and keep of, and attendants on, donkey stallions in the districts is shown in Appendix XVII. The general averages of the last six years have been as follows :—

	Rs.	a.	p.
1882-83	233	9	0
1883-84	194	4	8
1884-85	240	13	10
1885-86	202	15	6
1886-87	230	14	9
1887-88	291	7	7

This year the general average is Rs. 260-0-6. This shows a decrease of Rs. 31-7-1.

Pony mares covered.

105. The number of pony mares covered by donkey stallions during the last six years has been :—

In 1883-84	209
„ 1884-85	294
„ 1885-86	338
„ 1886-87	616
„ 1887-88	819
„ 1888-89	3.00

This shows that mule-breeding is developing in Sind, and I hope the number will now steadily increase.

106. As shown in Appendix XVIII, 103 mules were foaled during the past year, against 76 in the year before. Thus there is an increase of 27 foals.

Mule stock, number of.

107. Appendix XIX is a general statement showing Horse Shows held during the year 1888-89. The following sums were awarded as prizes :—

Horse Shows.

	Rs.	a.	p.
Poona	4,741	4	0
Rájkot	1,015	0	0
Bhúj	567	15	1
Jacobabad	4,200	0	0
Sibi	2,240	0	0
Ahmedabad	2,640	0	0*
Total ...	15,404	3	1
Add—Other expenses incurred	6,633	1	11
Grand Total ...	22,037	5	0

of which the sum of Rs. 7,430-0-0 was paid from the Provincial Revenues and Rs. 1,000 for the Sibi Horse Show by the Government of India, and the balance, Rs. 13,607-5-0, was contributed by local funds and subscriptions. The cost of the Bhúj Horse Show was defrayed, as usual, by His Highness the Ráo of Cutch. I attended these Horse Shows, and have given my remarks in the reports on the respective Horse Shows.

108. The number exhibited at these Shows was 3,624 against 4,352, showing a decrease of 728, which is attributed to the scarcity of forage.

109. Appendix XX shows the total expenses incurred during the year 1888-89.

110. The expenses incurred for the Superintendent and his office establishment are Rs. 9,434-15-1, which shows a decrease of Rs. 427-11-11 from that of the last year.

111. The total Rs. 67,889-15-9 shows a decrease of Rs. 10,071-9-7 from the previous year. This year the expenses under the head of purchase of stallions and Horse Shows were curtailed as much as possible.

They are divided as follows :—

	Rs.	a.	p.
I.—Cost of supervision and establishment	13,997	3	10
II.—Purchase and keep of stallions and Horse Shows ...	53,892	11	11
Total ...	67,889	15	9

of which the sum of Rs. 15,847-12-11 is debited to Local Funds, Rs. 6,246-6-11 is paid by the Government of India for expenses of stallions in Beluchistán and contribution towards Sibi Horse Show, and the remaining Rs. 45,795-11-11 is debited to Provincial Revenues. Thus Rs. 4,204-4-1 have been saved out of the sum allotted to this Department.

112. The amounts awarded as prizes by Government at the fairs and Horse Shows during the last eleven years are noted below :—

	Rs.	a.	p.
In 1878-79	7,293	10	6
„ 1879-80	7,141	1	0
„ 1880-81	9,184	14	0
„ 1881-82	10,515	11	4
„ 1882-83	11,866	8	0
„ 1883-84	10,666	14	6
„ 1884-85	8,370	0	0
„ 1885-86	6,383	0	0
„ 1886-87	9,400	0	0
„ 1887-88	9,900	0	0*
„ 1888-89	8,430	0	0*

* Includes grant of Rs. 1,000-0-0 given by the Government of India towards Sibi Horse Show.

113. Rs. 700-0-0 were spent on account of the purchase of horses. The average per annum for the last ten years was Rs. 6,121-9-8.

114. The expenses under the head of stallions' keep, &c., &c., are Rs. 33,643-11-2, excluding Beluchistán, against Rs. 33,612-0-11. This shows an increase of Rs. 31-10-3, and this is owing to the dearness of forage.

115. The expenses under this head for the last eleven years have been as follows :—

				Rs.	a.	p.
In 1878-79	the keep of	$47\frac{8}{12}$	stallions cast was	... 19,674	12	3
„ 1879-80	do.	$51\frac{7}{12}$	do.	... 18,484	1	3
„ 1880-81	do.	$51\frac{5}{6}$	do.	... 15,646	2	9
„ 1881-82	do.	65·81	do.	... 17,755	5	8
„ 1882-83	do.	73·32	do.	... 19,600	15	6
„ 1883-84	do.	72·78	do.	... 23,269	2	2
„ 1884-85	do.	70·28	do.	... 23,114	11	4
„ 1885-86	do.	76·06	do.	... 24,020	15	5
„ 1886-87	do.	93·69	do.	... 31,321	15	11
„ 1887-88	do.	100·40	do.	... 33,612	0	11
„ 1888-89	do.	100·002	do.	... 33,643	11	2

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX I.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Casualty Roll of Horse Stallions in the Bombay Presidency during the official year 1888-89.

No.	English Name.	Native Name.	Class.	Description of Casualty.	Date of Casualty.	Nature of Casualty.
1	Borneo ...	...	T. B. E.	Died ...	9th May 1888 ...	Died of a snake-bite.
2	Melbourne...	Gáekwád	N. T. E.	Do. ...	7th „ ...	Inflammation of the lungs.
3	Comet ...	...	Do.	Do. ...	5th October 1888 ...	From the effects of the operation of castration.
4	Hollander ...	...	Arab ...	Destroyed.	22nd December 1888.	In accordance with the donor's condition.

ABSTRACT.

Presidency.	Province.	Number died.	Number destroyed.	Total.	Average death.	Average destroyed.	General Average.
Bombay ...	Gujarát and Káthiáwár ...	1	1	2	3·12	1·04	4·16
	Deccan	2	...	2			

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

Superintendent's Office, Horse-breeding Operations, Poona, 8th July 1889.

APPENDIX II.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement of Horse Stallions sold during the official year 1888-89.

No.	English Name.	Native Name.	Class.	Date of Sale.	Name of Purchaser.	Amount sold for	Remarks.
						Rs. a. p.	
1	Punch	....	Arab ..	8th December 1888	Mr. Balanger	185 0 0	Bad stock-getter.
2	.....	Hydor	Do. ..	Do. ..	Mr. Nowroji Framji ..	105 0 0	Bad constitution and impotent.
3	.....	Sivájl	Do. ..	17th December 1888	Do. ..	290 0 0	Bad stock-getter.
4	....	Nirghor	Do. ..	Do. ..	Mr. E. Dinshaw.. ..	155 0 0	Cataract and lame from spavin.
5	Inspector ..	....	T.B.E. ..	24th January 1889 .	Mr. Kingcome	61 0 0	Disease of testicles and sheath.
6	Midnight.. ..	....	Arab ..	Do. ..	R. B. Bechardás Ambaidás	84 0 0	Bad coverer and bad foal-getter.
7	Tomtit	....	Do. ..	27th January 1889 .	Mr. Anant Gangárám ..	34 0 0	Spavin and strained hock.
	....	Bahádur	Do. ..	Do. ..	Mr. Kankarsaheb valad Ameersaheb.	17 0 0	Disease of sheath.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

Superintendent's Office, Horse-breeding Operations, Poona, 8th July 1889.

APPENDIX III.

GOVERNMENT OF BOMBAY.

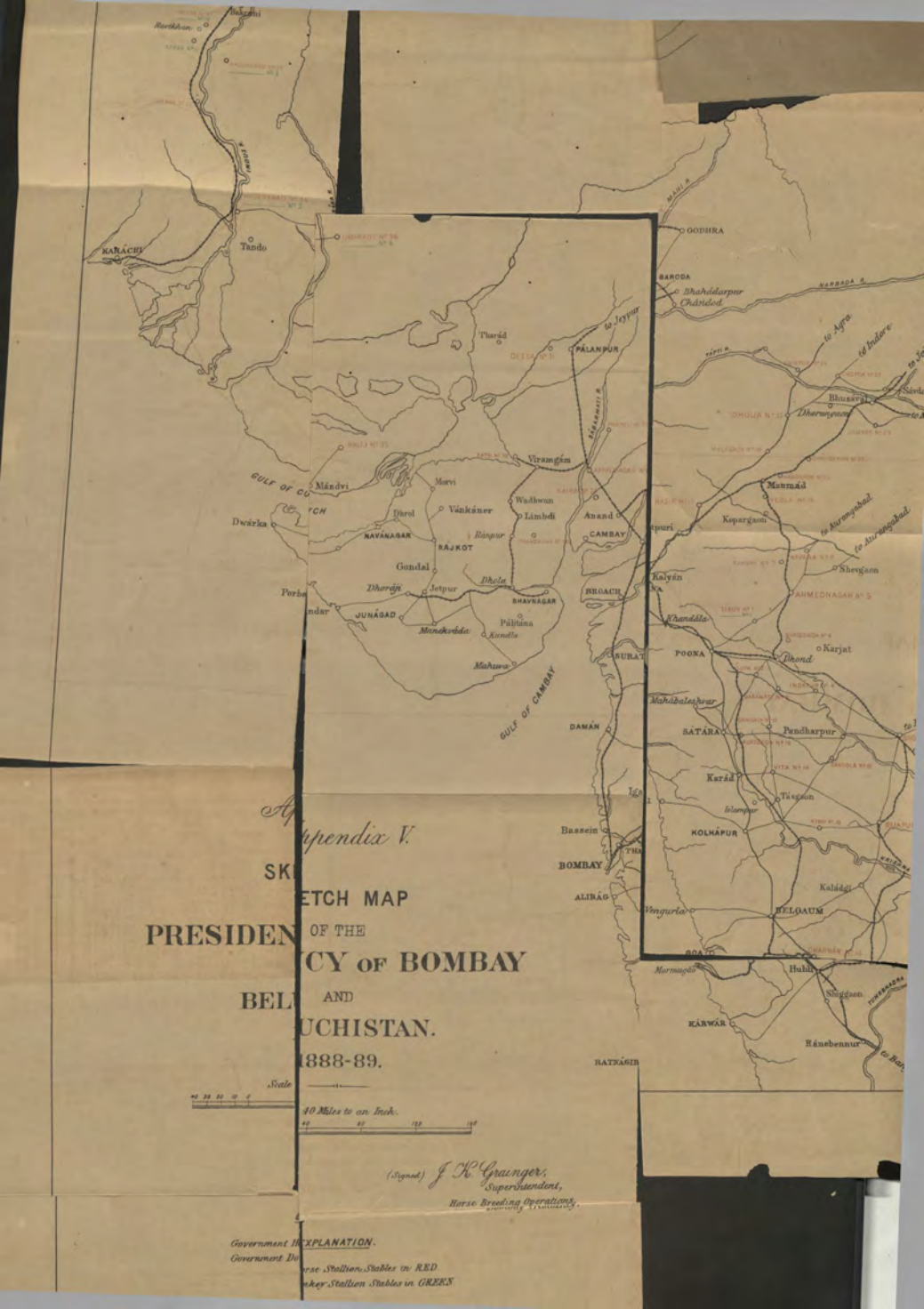
HORSE-BREEDING OPERATIONS.

Statement showing Classification and Distribution of Horse Stallions attached to the Department of Horse-breeding Operations during the official year 1888-89.

Class of Stallions.	DECCAN.					GUJARÁT.				SIND AND CUTCH.					BELUCHISTÁN.					Grand Total.
	Very good.	Good.	Fair.	Bad.	Total.	Very good.	Good.	Fair.	Total.	Very good.	Good.	Fair.	Bad.	Total.	Very good.	Good.	Fair.	Bad.	Total.	
Thorough-bred English ...	7	...	...	...	7	2	...	...	2	2	...	...	...	2	3	3	...	...	6	17
Half-bred English and Norfolk Trotters	6	...	...	...	6	...	...	...	...	6	...	...	...	6	1	1	...	...	2	14
Arab	14	23	2	2	41	8	4	...	12	11	6	1	1	19	1	3	1	...	5	77
Pegu	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Total ...	28	23	2	2	55	10	4	...	14	19	6	1	1	27	5	7	1	...	13	109

Superintendent's Office
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.


Appendix V.
SKETCH MAP
PRESIDENCY OF BOMBAY
AND
BELUCHISTAN.
1888-89.
Scale
40 Miles to an Inch.
(Signed) J. K. Grainger,
Superintendent,
Horse Breeding Operations.
Government EXPLANATION.
Government Do
Horse Stallion Stables in RED.
Donkey Stallion Stables in GREEN.
KARACHI
Tando
GODHRA
BARODA
Bhadárpur
Chándod
Tharád
PÁLANPUR
Viramgám
Mándvi
Mavi
Wadhwan
Limbdi
Anand
CAMBAY
Dwárka
Dhrol
Vánkáner
NAVANAGAR
Rájpur
RAJKOT
Gondal
Dhrája
Jetpur
Dhola
BHAVNAGAR
JUNÁGAD
Mendvada
Kundla
Pálitana
Mahuwa
BROACH
SURAT
DAMAN
Kalyán
Khandála
POONA
Karjat
Dhond
Mahábaleshwar
SÁTÁRA
Pandharpur
Karád
Tásgaon
Islampur
KOLHÁPUR
Bassein
BOMBAY
ALIBÁG
Kaládgi
Vengurla
BELGAUM
Mormugão
Hubli
Sirsigaon
KÁRWÁR
Ránebennur
HAVNÁGIR
Mahmúd
Kopargaon
Shevgaon
Bhusáwal
Dharangaon
Sávda
to Agra
to Indore
to Aurangabad
GULF OF CAMBAY

APPENDIX III.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing Classification and Distribution of Horse Stallions attached to the Department of Horse-breeding Operations during the official year 1888-89.

Class of Stallions.	DECCAN.					GUJARÁT.				SIND AND CUTCH.					BELUCHISTÁN.					Grand Total.
	Very good.	Good.	Fair.	Bad.	Total.	Very good.	Good.	Fair.	Total.	Very good.	Good.	Fair.	Bad.	Total.	Very good.	Good.	Fair.	Bad.	Total.	
Thorough-bred English ...	7	...	...	...	7	2	...	...	2	2	...	...	...	2	3	3	...	...	6	17
Half-bred English and Norfolk Trotters	6	...	...	...	6	...	...	...	...	6	...	...	...	6	1	1	...	...	2	14
Arab	14	23	2	2	41	8	4	...	12	11	6	1	1	19	1	3	1	...	5	77
Pegu	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Total ...	28	23	2	2	55	10	4	...	14	19	6	1	1	27	5	7	1	...	13	109

Superintendent's Office
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX IV.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing Cost of Feed, Keep, Attendants, &c., &c., of Horse Stallions in the Bombay Presidency during 1888-89.

Provinces.	Districts.	Number of Stallions or Days.	Total annual Cost.	Average per Horse Stallion per annum.	General Average in each Province.
			Rs. a. p.	Rs. a. p.	Rs. a. p.
Deccan ...	Sirúr	2,194	1,884 4 1	313 7 6	320 4 0
	Supa	1,643	1,312 4 6	291 8 5	
	Bárámati	830	701 6 6	308 7 2	
	Indápur	921	760 1 8	301 3 9	
	Ahmednagar ...	6,803	6,460 11 6	346 10 2	
	Sholápur	1,095	876 0 4	292 0 1	
	Bijápur	365	266 0 8	266 0 8	
	Belgaum	365	484 15 2	484 15 2	
	Dhárwár	1,852	1,436 13 11	283 2 11	
	Sátára	1,264	1,018 10 1	294 2 3	
	Násik	1,460	1,267 4 3	316 13 0	
	Khándesh	2,185	1,936 11 3	323 8 4	
	Total ...	20,977	18,405 3 11	.....	
Gujarát and Káthiáwar.	Kaira	357	300 14 1	307 9 11	318 6 4
	Ahmedabad ...	3,696	2,757 11 2	272 5 4	
	Deesa	439	449 7 1	373 10 11	
	Káthiáwár... ...	1,190	1,448 8 6	444 4 9	
	Total ...	5,682	4,956 8 10	.....	
Sind and Cutch.	Cutch	1,862	1,804 12 10	353 12 7	373 9 5
	Karáchi	365	371 15 6	371 15 6	
	Thar and Párkar ...	730	785 13 2	392 14 7	
	Hyderabad ...	730	677 0 2	338 8 1	
	Jacobabad... ...	3,608	4,281 8 7	433 2 2	
	Shikárpur... ...	2,555	2,160 12 2	308 10 10	
	Total ...	9,850	10,081 14 5	.....	
Beluchistán...	Sibi	2,575	2,642 10 7	374 9 5	428 7 2
	Quetta	1,702	2,377 13 8	509 15 0	
	Total ...	4,277	5,020 8 3	.....	

ABSTRACT.

Provinces.	Average in each Province.
	Rs. a. p.
Deccan	320 4 0
Gujarát and Káthiáwár	318 6 4
Sind and Cutch	373 9 5
Beluchistán	428 7 2
General Average ...	344 3 6

Superintendent's Office, Horse-breeding Operations, Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX VI.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Index to the Map of Horse-breeding Operations in the Bombay Presidency during the year 1888-89.

Number.	Name of Stallion Stand.	Class of Horse and Pony Stallion at each Stand.				Total.			Number of branded Mares remaining on 1st April 1889.		Number of branded Mares covered during 1888-89.		Average number of branded Mares covered per Stallion.		Remarks.
		T. B. E.	N. T. E.	Arab.	Pegu.	Horse.	Pony.	Total.	Horse.	Pony.	Horse.	Pony.	Horse.	Pony.	
1	Sirúr	2	2	3	...	5	2	7	193	112	240	82	48	41	
2	Supa	...	...	4	...	2	2	4	171	100	82	71	41	35·5	
3	Bárámati	...	1	2	...	1	2	3	56	30	53	55	53	27·5	
4	Indápur	...	1	2	...	2	1	3	51	48	65	13	32·5	13	
5	Ahmednagar	4	2	5	...	7	4	11	152	120	108	116	15·42	29	
6	Shrigonda	...	...	1	...	...	1	1	140	427	...	39	...	39	
7	Ráhuri	1	...	...	...	1	...	1	99	544	28	...	28	...	
8	Nevása	...	...	2	...	...	2	2	27	432	...	49	...	24·5	
9	Sholápur	...	...	1	...	1	...	1	33	9	21	...	21	...	
10	Sángola	...	...	2	...	1	1	2	100	73	28	33	28	33	
11	Bijápur	...	...	1	...	1	...	1	...	1	14	...	14	...	
12	Athui	...	...	1	...	...	1	1	1	3	...	52	...	52	
13	Dhárwár	...	...	4	1	...	5	5	1	419	...	63	...	12·6	
14	Vita	...	...	1	...	1	...	1	15	200	27	...	27	...	
15	Dahivádi	...	...	1	...	...	1	1	1	13	...	14	...	14	
16	Koregaon	...	...	1	...	...	1	1	9	103	...	16	...	16	
17	Násik	...	...	1	...	...	1	1	3	233	...	18	...	18	
18	Málegaon	...	...	1	...	...	1	1	...	394	...	41	...	41	
19	Yeola	...	...	1	...	...	1	1	2	84	...	31	...	31	
20	Nandgaon	...	...	1	...	...	1	1	...	35	...	16	...	16	
21	Dhulia	...	...	2	...	...	2	2	19	440	...	32	...	16	
22	Chálisgaon	...	...	1	...	...	1	1	11	21	...	27	...	27	
23	Jámner	...	...	1	...	1	...	1	39	180	21	...	21	...	
24	Shirpur	...	...	1	...	...	1	1	4	552	...	13	...	13	
25	Chopda	...	...	1	...	...	1	1	4	145	...	12	...	12	
26	Kaira	...	...	1	...	1	...	1	105	210	37	...	37	...	
27	Ahmedabad	1	...	5	...	4	2	6	302	230	107	101	26·75	50·5	
28	Dhandhuka	...	...	2	...	2	...	2	356	7	31	...	15 5	...	
29	Parántij	...	...	2	...	1	1	2	58	178	16	27	16	27	
30	Pátri	...	...	1	...	1	...	1	35	103	20	...	20	...	
31	Deesa	1	...	1	...	1	1	2	392	142	36	18	36	18	
32	Bhúj	1	1	3	...	5	...	5	493	10	171	...	34·2	...	
33	Shewan	...	...	1	...	1	...	1	3	...	43	...	43	...	
34	Hyderabad	...	...	2	...	1	1	2	60	...	42	20	42	20	
35	Naushahro	...	...	1	...	1	...	1	11	...	23	...	23	...	
36	Umarkot	...	...	1	...	1	...	1	26	1	34	...	34	...	
37	Shikárpur	1	1	...	...	2	...	2	180	...	29	...	14·5	...	
38	Rohri	...	...	1	...	1	...	1	...	5	11	...	11	...	
39	Mirpur	...	...	1	...	1	...	1	38	5	10	...	10	...	
40	Lárkhána	...	...	2	...	2	...	2	279	3	50	...	25·	...	
41	Mehar	...	...	1	...	1	...	1	157	...	21	...	21	...	
42	Jacobabad	...	4	6	...	9	1	10	761	87	487	55	54·11	55	
43	Sibi	3	...	...	...	3	...	3	421	13	78	...	26	...	
44	Lehri	...	...	1	...	1	...	1	70	...	59	...	59	...	
45	Dera Bugti	...	...	2	...	2	...	2	...	...	82	...	41	...	
46	Loralai	1	...	...	...	1	...	1	...	...	26	...	26	...	
47	Duki	...	1	...	...	1	...	1	...	...	33	...	33	...	
48	Barkhan	1	...	...	...	1	...	1	62	...	38	...	38	...	
49	Quetta	...	1	1	...	2	...	2	26	...	64	...	32	...	
50	Pishin	1	...	1	...	2	...	2	...	...	33	...	16·5	...	

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX VII.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Index to Map of Mule-breeding Operations in the Bombay Presidency and Beluchistán during the official year 1888-89.

Number of Donkey Stallion Stand.	Name of Donkey Stallion Stands.	Class of Donkey Stallions at each Stand.								Number of Mares remaining on 1st April 1889.	Number of Mares covered during 1888-89.	Average number of Mares covered per Stallion.	Remarks.
		Khorásán.	Arab.	Italian.	Bokhára.	Persian.	Khurdistán.	Cyprus.	Total.				
1	Sirúr	...	...	1	...	...	...	...	1	149	33	33	
2	Hyderabad	...	...	...	1	...	...	...	1	...	30	30	
3	Naushahro	...	...	1	...	...	...	...	1	...	52	52	
4	Umarkot	...	1	...	...	...	...	...	1	45	23	23	
5	Shikárpur	...	1	1	...	1	1	...	4	40	66	16·5	
6	Rohri...	...	...	...	...	1	...	1	2	8	80	40	
7	Ghotki	1	...	..	...	...	...	...	1	...	39	39	
8	Mirpur	...	...	...	...	1	...	...	1	54	34	34	
9	Lárkhána	...	1	...	...	...	...	...	1	106	12	12	
10	Mehar	...	1	1	...	...	...	...	2	216	18	9	
11	Kakar...	...	1	...	...	1	...	...	2	...	96	48	
12	Rato-dero	...	...	1	...	...	...	...	1	30	54	54	
13	Jacobabàd	...	...	4	...	2	...	1	7	66	334	47·71	
	Gujarát	...	...	...	...	...	...	...	...	33	...	...	No donkey.

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

, J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX VIII.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing where each Horse Stallion was stationed, and how many Mares he covered, during the official year 1888-89.

Serial Number.	Names and Classes of Horse Stallions.		Name of Stand at which stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total number of Mares covered during 1888-89.	Remarks showing reasons why the full complement of Mares was not covered.
	Names.	Class.						
1	Tam O'Shanter ...	T. B. E. ...	Sirúr	365	...	50	50	
2	Luminary	N. T. E. ...	Do.	365	...	40	40	
3	Orator	Arab ...	Do.	365	...	50	50	
4	Punch	Do. ...	Do.	252	...	35	35	Sold 8th December 1888.
5	Pradhán	Do. ...	Do.	365	...	49	49	
6	Hakim	Do. ...	Do.	101	...	10	33	
			Ahmednagar... ...	264	...	23		
7	Opal	T. B. E. ...	Sirúr	102	...	12	23	Was at Depôt till January 1889.
			Ahmednagor... ...	263	...	11		
8	Review	N. T. E. ...	Sirúr...	103	...	11	19	Do. do.
			Ahmednagar... ...	262	...	8		
9	Hyder	Arab ...	Sirúr	176	...	23	23	Sold 8th December 1888.
10	Comet	N. T. E. ...	Supa	188	90	8	8	Died 5th October 1888.
11	Zamindár	Arab ...	Do.	365	...	55	55	
12	Chinkara	Do. ...	Do.	365	...	35	35	
13	Hector	Do. ...	Do.	365	...	36	36	
14	Latchkey	Do. ...	Do.	100	...	12	19	Including a number of days during which he was at the Depôt.
			Shrigonda	265	...	7		
15	Rocket	Do. ...	Bárámati	365	...	22	22	
16	Nirghor	Do. ...	Do.	261	...	29	29	Sold 8th December 1888.
17	Tannáji	Do. ...	Do.	365	...	33	33	
18	Young Freedom ...	N. T. E. ...	Do.	99	...	13	24	Was at Depôt.
			Ahmednagar... ...	266	...	11		
19	Siváji...	Arab ...	Indápur	261	...	34	34	Sold 8th December 1888.
20	Kumáyat	Do. ...	Do.	365	...	20	20	
21	Ormonde	Do. ...	Do.	197	120	13	13	Lately came here.
22	Teelwell	N. T. E. ..	Do.	98	...	4	11	Were at Depôt.
			Ahmednagar ...	267	...	7		
23	Model	Do. ...	Do.	221	...	...	...	
24	Friendship	Arab ...	Do.	365	...	24	24	
25	Alliar	T. B. E. ...	Do.	365	...	19	19	
26	Adonis	Do. ...	Do.	365	...	18	18	
27	Digsberry	Do. ...	Do.	67	...	...	...	Were at Depôt.
28	Wisechits	Do. ...	Do.	67	...	2	2	
29	Merrylegs	N. T. E. ...	Do.	221	...	2	2	
30	Sardár	Ara ...	Do.	110	...	5	26	
			Karjat	255	...	21		
31	Clipper	Do. ...	Ahmednagar ...	42	...	3	38	
			Kopargaon	323	...	35		
32	Glendale	Do. ...	Ahmednagar... ..	362	...	26	26	
33	Sailor Boy	Do. ...	Do.	54	...	1	26	
			Shevgam	311	...	25		
34	Borneo	T. B. E. ...	Admednagar... ...	39	...	5	5	Died 9th May 1888.
35	Tomtit	Arab ...	Do.	303	...	19	19	
36	Bahádur	Do. ...	Ahmednagar... ...	279	90	14	19	Sold 27th January 1889.
			Ráhuri	24	...	5		
37	Mainstay	Do. ...	Shrigonda	365	...	39	39	
38	Deshmookh	Do. ...	Nevása	365	...	25	25	
39	Mystic	Do. ...	Do.	365	...	24	24	
40	Allan Bane	T. B. E. ...	Ahmédnagar... ..	96	...	7	28	
			Ráhuri	269	...	21		
41	Nuzzur	Arab ...	Sholápur	365	...	21	21	
42	Grey Down	Do. ...	Sángola	365	...	28	28	
43	Phantom	Do. ...	Do.	365	...	33	33	
44	Motirám	Do. ...	Bijápur	365	...	14	14	
45	Rizak	Do. ...	Athni	365	...	52	52	

APPENDIX VIII—*continued.*

Serial Number.	Names and Classes of Horse Stallions.		Name of Stand at which stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total number of Mares covered during 1888-89.	Remarks showing reasons why the full complement of Mares was not covered.
	Names.	Class.						
46	Tippoo	Arab	Dhárwár	365		12	12	
47	Moochel	Do.	Do.	365		10	10	
48	February	Do.	Do.	365		12	12	
49	March	Do.	Do.	365		16	16	
50	Diamond	Pegu	Do.	365		13	13	
51	Kingcraft	Arab	Vita	365		27	27	
52	Spider	Do.	Dahiwádi	365		14	14	
53	Monk	Do.	Koregaon	365		16	16	
54	Multum	Do.	Násik	365		18	18	
55	Cruiser	Do.	Málegaon	365		41	41	
56	Pilgrim	Do.	Yeola	365		31	31	
57	Cyclone	Do.	Nándgaon	365		16	16	
58	Lieutenant	Do.	Dhulia	365	180	8	8	
59	Torpedo	Do.	Do.	365		24	24	
60	Pinto	Do.	Chálisgaon	365		27	27	
61	Kaldar	Do.	Jámner	365		21	21	
62	Nána	Do.	Shirpur	365		13	13	
63	Grey Frier	Do.	Chopda	365		12	12	
64	Melton	Do.	Kaira	365		37	37	
65	Hampton	T. B. E.	Ahmedabad	365		14	14	
66	January	Arab	Do.	335		53	57	
			Katosan	30		4		
67	Ángria	Do.	Ahmedabad	365		44	44	
68	Hollander	Do.	Do.	261		11	11	Destroyed on 22nd December 1888.
69	Inspector	T. B. E.	Do.	256		7	7	Sold on 4th January 1889.
70	Midnight	Arab	Do.	125		14	24	
			Parántij	153		10		
71	Mootrib	Do.	Jetpur	300		6	14	Transferred from Káthiáwár.
			Ahmedabad	65		8		
72	Harvester	Do.	Songad	165		1	6	
			Ahmedabad	78		5		
73	Lachin	Do.	Rájkot	345		26	31	
			Ahmedabad	20		5		
74	Kohinoor	Do.	Do.	311		17	17	
			Dhandhuka	54		...		
75	Táhlim	Do.	Ahmedabad	311		14	14	
			Dhandhuka	54		...		
76	Rufus	Do.	Pátri	365		20	20	
77	Scindia	Do.	Parántij	365		16	16	
78	Hassan	Do.	Do.	365		27	27	
79	Majeeb	Do.	Deesa	365		18	18	*Vide* remarks in the body of the report.
80	Cottenham	T. B. E.	Do.	74		4	36	
			Rájkot	291		32		
81	Gáikwád	N. T. E.	Bhúj	27		8	8	Died 7th May 1888.
82	Despatch	Do.	Do.	365		41	41	
83	Elzevier	T. B. E.	Do.	365		48	48	
84	Torna	Arab	Do.	365		20	20	Is suffering from chronic disease of testicles, and has been castrated, and will be sold.
85	Glenmore	Do.	Do.	365		21	21	
86	Lord Napier	Do.	Do.	365		33	33	
87	Shammer	Do.	Schwán	365		43	43	
88	Eureka	Do.	Naushahro	252		35	42	
			Kandiáro	113		7		
89	Dwárka	Do.	Naushahro	102		6	23	
			Hyderabad	178		3		
			Badha	85		14		
90	Khatan	Do.	Umarkot	365		34	34	
91	Paradox	Do.	Do.	365		20	20	Since transferred.
92	Waverly	Do.	Lárkhána	300		26	26	
			Kambar	37		...		
			Shikárpur	20		...		
			Jacobabad	8		...		
93	Rangoon	Do.	Lárkhána	339		24	24	
			Shikárpur	7		...		
			Jacobabad	19		...		

APPENDIX VIII—*concluded.*

Serial Number.	Names and Classes of Horse Stallions.		Name of Stand at which stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total number of Mares covered during 1888-89.	Remarks showing reasons why the full complement of Mares was not covered.
	Names.	Class.						
94	Shahar	Arab ...	Mirpur	339	...	9	10	
			Jacobabad	26	...	1		
95	Musjid	Do. ...	Rohri	345	...	9	11	
			Jacobabad	20	...	2		
96	Royal Visit	Do. ..	Mehar	346	...	21	21	
			Shikárpur	9	...	...		
			Jacobabad	10	...	...		
97	Trustee	N. T. E. ...	Mehar	22	...	...	12	
			Shikárpur	330	...	12		
			Jacobabad	13	...	...		
98	Sobersides	T. B. E. ...	Shikárpur	365	...	17	17	
99	Cupid	N. T. E. ...	Jacobabad	363	2	54	54	
100	Contract	Do. ...	Do.	365	...	54	54	
101	Planet	Do. ...	Do.	220	...	51	55	
			Quetta	119	26	4		
102	Nicholas	Arab ...	Jacobabad	365	...	54	54	
103	Gold Mohor	Do. ...	Do.	133	...	23	55	
			Thull	232	...	32		
104	Glencoe	Do. ...	Jacobabad	330	...	53	55	
			Thull	35	...	2		
105	Sir Frank	Do. ...	Jacobabad	102	...	20	55	
			Kashmor	37	...	1		
			Thull	226	...	34		
106	Sir Peter	N. T. E. ...	Jacobabad	83	...	8	51	
			Thull	282	...	43		
107	Ameer	Arab ...	Jacobabad	217	...	34	54	
			Shahdádpur	148	...	20		
108	Mars	Do. ...	Jacobabad	365	...	55	55	
109	Essan bin Curtas ...	Do. ...	Lehri	303	...	46	51	
			Sibi	28	...	5		
			Dera Bugti	34	...	...		
110	Cyprus	Do. ...	Phuleji	310	...	25	31	
			Sibi	21	...	1		
			Dera Bugti	34	...	5		
111	Doctor	T. B. E. ...	Do.	315	...	13	18	Was ill for some days.
			Sibi	50	...	5		
112	Beaver	Arab ...	Do.	25	...	12	59	
			Lehri	24	...	5		
			Quetta	316	...	42		
113	Kohilan	Do. ...	Sibi	26	...	6	10	Full information has not been received.
			Pishin	8	...	4		
114	Duncan	T. B. E. ...	Sibi	88	...	16	38	Remaining days were spent in transit.
			Barkhan	265	...	22		
115	Songster	Do. ...	Sibi	64	...	7	23	
			Barkhan	265	...	13		
			Pishin	8	...	3		
116	Shrewsbury	Do. ...	Sibi	131	...	13	26	
			Loralai	227	...	13		
117	Sir James	N. T. E. ...	Sibi	88	...	15	33	
			Duki	271	...	18		
118	Forgery	T. B. E, ...	Quetta	35	...	8	8	Died 2nd May 1888.
119	Auchencruive ...	Do. ...	Do.	307	...	36	36	
120	Brunno	N. T. E. ...	Do.	365	...	31	31	
121	Jasper	Arab ...	Do.	365	...	25	25	
122	Sir Francis	T. B. E. ...	Pishin	307	...	24	24	

N.B.—On account of the scarcity of forage very few mares were covered in Ahmednagar, Sholápur, Sátára, Dhárwár and Ahmedabad Districts.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

APPENDIX IX.

GOVERNMENT OF BOMBAY.

Mule-breeding Operations.

Statement showing where each Donkey Stallion was stationed, and how many Mares he covered during 1888-89.

Number.	Names and Classes of Donkey Stallions.		Name of Stand where stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total number of Mares covered during 1888-89.	Remarks showing reasons why the full complement of Mares was not covered.
	Names.	Classes.						
1	Patwarri	Italian ...	Sirúr	365	...	33	33	
2	Kandahari ...	Bokhára ...	Hyderabad	178	...	14	30	
			Naushahro	102	...	6		
			Badha	85	...	10		
3	Pindi	Italian ...	Naushahro	252	...	40	52	
			Kandiaro	113	...	12		
4	Boanerges ...	Arab ..	Umarkot	365	...	23	23	
5	Gohana	Italian ...	Ghotki	172	60	7	7	Refuses to cover pony mares
			Kotsultan...	91	91	...		
			Mehar	92	...	...		
6	Gopeeganj ...	Do. ...	Shikárpur..	39	...	...	28	
			Lárkhána	176	...	23		
			Jacobabad	13	...	...		
			Rato-dero...	59	...	...		
			Sibi	72	...	5		
7	Behra	Arab ...	Shikárpur	90	...	5	32	
			Naushahro	197	...	27		
			Sibi	72	...	...		
8	Kamrup	Cyprus ...	Rato-dero...	261	...	31	31	
9	Moti	Arab ..	Shikárpur...	365	90	27	27	
10	Neddy	Do. ...	Do.	47	...	12	12	Remaining days were spent in transit. No mares covered in Khándesh, owing to the prejudice of natives against mule-breeding.
			Lárkhána	74	...	...		
			Khándesh,,.	232	...	...		
11	Balaam	Do. ...	Shikárpur...	47	...	...	11	Refuses to cover pony mares.
			Mehar	74	...	...		
			Mirpur	244	99	11		
12	Kulloo	Persian ...	Shikárpur...	99	...	24	24	Full information has not been received.
13	Changi	Khorásán...	Do.	294	...	32	39	
			Ghotki	71	...	7		
14	Banarjee	Persian ...	Mirpur	70	...	3	34	
			Mehar	295	...	31		
15	Achnera	Cyprus ...	Lárkhána	240	...	38	44	
			Kambar	29	...	4		
			Jacobabad	23	...	...		
			Rohri	73	...	2		
16	John	Persian ...	Kakad	267	...	64	64	
			Naushahro	98	...	...		
17	Bhag	Khurdistán.	Shikárpur...	365	215	14	14	Was ill for a number of days.
18	Shah Ferid ...	Persian ...	Rohri	267	...	36	36	
			Lárkhána...	98	...	...		
19	Khandoba ...	Italian ...	Ahmednagar	348	...	14	15	Stood at Nagar for many days, where only 14 mares were covered.
			Shikárpur...	5	...	1		
20	Jack	Persian ...	Jacobabad	116	...	28	49	
			Thul	150	99	21		
21	Kanarputta ..	Italian ...	Jacobabad	88	...	21	30	
			Kashmor	116	161	9		
22	Hafizgunj... ...	Do. ...	Jacobabad	365	...	52	52	
23	Ramghat	Cyprus ...	Do.	228	...	5	50	
			Kashmor	137	...	45		
24	Bagput	Italian ...	Jacobabad	262	...	49	49	
			Shahadádpur	31	...	...		
25	Colombo	Do. ...	Jacobabad	90	...	10	25	
			Thul	98	...	12		
			Kashmor	105	...	3		
26	Socrates	Persian ...	Thul	35	...	6	79	
			Jacobabad	325	100	73		

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX X.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Annual Return of Stock in the Bombay Presidency during the official year ending 31st March 1889.

Details.	Government Horse Stallions.						Government Donkey Stallions.									Branded Mares, the property of Breeders.			Remarks.
	Thorough-bred English.	Half-bred English, including Norfolk Trotters.	Pegu Pony.	Arab Horse.	Arab Pony.	Total.	Spanish.	Arab.	Bokhára.	Italian.	Persian.	Khorásán.	Cyprus.	Khurdistán.	Total.	For Horse-breeding.	For Pony-breeding.	For Mule-breeding.	
Balance on the 1st April 1888	11	12	1	36	43	103	...	4	1	6	7	1	3	1	23	4,761	5,212	700	
Increase. Received by importation	2	2	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	
Increase. Purchased in India	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
Increase. Received by transfer from Bengal Register	...	...	...	...	...	...	...	1	...	3	...	...	...	...	4	...	...	...	
Increase. Branded during the year	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	225	531	48	
Total ...	13	14	1	37	43	108	...	5	1	9	7	1	3	1	27	4,986	5,743	748	
Decrease ... Died	1	2	...	...	...	3	...	...	...	...	...	...	1	...	1	20	31	...	
Decrease ... Destroyed	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
Decrease ... Sold	1	...	...	1	6	8	...	...	...	...	1	...	...	...	1	...	...	1	
Total ...	2	2	...	2	6	12	...	...	...	...	1	...	1	...	2	20	31	1	
Balance on 31st March 1889	11	12	1	35	37	96	...	5	1	9	6	1	2	1	25	4,966	5,712	747	
Total of each Class ...	96						25									4,966	5,712	747	
Deccan	55						1									1,131	4,718	149	
Gujarát	14						...									1,248	870	33	
Sind and Cutch	27						24									2,008	111	565	
Beluchistán	...						...									579	13	...	
Total ...	96						25									4,966	5,712	747	

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XI.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Statement showing the Results of the year's Operations during the official year 1888-89.

Province.	Number of branded Mares, the Property of Breeders, remaining on the Register on 31st March 1889.	Number of branded Mares, the Property of Breeders, covered by Government Stallions.		Number of Government Horse Stallions employed at Stud work.		Average number of branded Mares covered in 1888-89 per Stallion employed during the year.	Number of Stock, the Property of Breeders, got by Government Stallions foaled during the year 1888-89, result of coverings of 1887-88.												Number of Mares covered in 1887-88, the results of which are known.	Number of Government Stallions employed in 1887-88, the results of which with regard to coverings are known.	Percentage of produce foaled during 1888-89 to Mares covered in 1887-88.	Average Number of produce foaled during 1888-89 per Stallion employed at Stud work in 1887-88.
							Colts.						Fillies.								
		During 1887-88.	During 1888-89.	During 1887-88.	During 1888-89.		Thorough-bred English.	Norfolk Trotter.	Australian.	Arab.	Pegu.	Total.	Thorough-bred English.	Norfolk Trotter.	Australian.	Arab.	Pegu.	Total.	Grand Total.				
Deccan and Khándesh ...	5,849	1,584	1,480	46·14	41·8	35·40	13	21	...	231	3	268	23	15	...	233	2	263	531	1,393	38·20	38·11	13·90
Gujarát and Káthiáwár .	2,118	424	393	15·76	14·25	27·57	4	...	...	33	...	37	10	...	...	32	...	42	79	325	11·19	24·30	7·05
Sind and Cutch	2,119	1,001	996	24·48	24·15	41·24	6	40	...	75	...	121	12	33	...	64	...	109	230	615	15·18	37·39	15·15
Beluchistán	592	569	413	15·54	15·15	33·99	37	16	...	37	...	90	38	20	...	43	...	101	191	429	10·24	44·52	18·65
Total ...	10,678	3,578	3,282	101·92	92·35	35·55	60	77	...	376	3	516	83	68	...	362	2	515	1,031	2,762	74·81	37·32	13·78

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XII.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement of Remounts purchased during the official year 1888-89.

Presidency.	Remounts purchased by	Number of Remounts purchased.				Ages of Remounts purchased.										Breeds of Remounts purchased.				Remarks.
		Horses.	Mares.	Geldings.	Total.	Under 1 year.	1 and under 1½ year.	1½ and under 2 years.	2 years and over.	3 years and over.	4 years and over.	5 years and over.	6 years and over.	7 years and over.	8 years and over.	Total.	Produce of Government Stallions.	Class of Sires not known.	Country-bred.	Total.	
Bombay	Army Remount Department ...	3	...	...	3	...	...	...	...	...	...	...	...	...	...	...	2	1	...	3	Information regarding ages of different purchases has not been received.
	Bombay Native Cavalry ...	152	101	54	307	...	...	...	...	...	...	...	...	...	...	...	52	157	98	307	Ditto ditto.
	Police, Northern Division ...	9	1	...	10	...	...	...	...	...	7	2	...	1	...	10	...	8	2	10	
	Police, Central Division ...	2	...	...	2	...	...	...	1	...	...	...	...	1	...	2	1	...	1	2	
	Police, Southern Division ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Police in Sind	66	2	1	69	...	...	...	...	...	9	19	6	7	...	*41	1	...	68	69	* Information regarding ages has not been received from some districts.
	Total ...	232	104	55	391	...	...	...	...	...	...	...	...	...	...	...	56	166	169	391	

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XIII.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing the Number of Colts, the property of Zamindárs, castrated by District Salutris and Castrators in the Bombay Presidency Horse-breeding Districts during 1888-89.

Province.	District.	Number of Colts castrated.	Number of deaths resulting from effects of operation.	Remarks.
Deccan ...	Poona	26	.....	
	Ahmednagar	10	.....	
	Khándesh	31	.....	
Gujarát	Ahmedabad	16	.....	
Sind	Shikárpur	3	.....	
Beluchistán ...	Sibi	12	.....	
	Total ...	98	.....	

APPENDIX XIV.

GOVERNMENT OF BOMBAY

MULE-BREEDING OPERATIONS.

Casualty Roll of Donkey Stallions during the official year 1888-89.

No.	Name.	Breed.	Description of Casualty.	Date of Casualty.	Nature of Casualty.
1	Kamrup	Cyprus	Died ...	16th December 1888.	Died of heart-disease or the bursting of a blood-vessel by a sudden fall.

ABSTRACT.

Province.	District.	Number died.	Number destroyed.	Total.	Average death.	Average destroyed.	General average.	Remarks.
Sind ...	Shikárpur ...	1	...	1	4	...	4	

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

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APPENDIX XV.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Statement of Donkey Stallions sold during the official year 1888-89.

Serial No.	Name.	Class.	Date of Sale.	Name of Purchaser.	Amount.	Remarks as to cause why considered unfit for Government Stud-work.
					Rs.	
1	Jeeramji ...	Persian ...	25th June 1888.	Mr. Jawal valad Hotel.	55	Impotent and slow-coverer.

APPENDIX XVI.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Statement showing the Classification and Distribution of Donkey Stallions attached to the Department of Horse-breeding Operations during the official year 1888-89.

Class.	DECCAN.				SIND.				Grand Total.	Remarks.
	Very good.	Good.	Fair.	Total.	Very good.	Good.	Fair.	Total.		
Bokhára ...	...	...	...	...	1	...	...	1	1	
Khorásán ...	...	...	...	...	1	...	...	1	1	
Italian ...	...	...	1	1	8	...	...	8	9	
Persian ...	...	...	...	...	3	3	...	6	6	
Cyprus ...	...	...	...	...	2	...	...	2	2	
Khurdistán ...	...	...	...	...	...	1	...	1	1	
Arab ...	...	...	...	...	1	3	1	5	5	
Total ...	...	...	1	1	16	7	1	24	25	

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1888.

APPENDIX XVII.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Statement showing Cost of Feed, Keep, Attendants, &c., of Donkey Stallions in the Bombay Presidency during 1888-89.

Province and District.	Number of Stallions or Days.	Total Annual Cost.	Average per Donkey Stallion per annum.	General Average in each Province.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	
DECCAN. Sirúr	365	226 12 9	226 12 9	.....	
Ahmednagar ...	348	313 3 3	328 8 0	.....	
Khándesh	232	245 15 8	386 15 10	.....	
Total ...	945	785 15 8	.....	303 9 3	
SIND. Hyderabad	730	533 15 11	266 15 11½	.....	
Umarkot	365	136 7 7	136 7 7	.....	
Shikárpur	4,465	2,808 4 3	229 9 0	.....	
Jacobabad	2,048	1,807 14 5	322 3 4	.....	
Total ...	7,608	5,286 10 2	.....	253 10 1	
BELUCHISTÁN. Sibi	288	225 14 8	286 5 1	.....	
Total ...	288	225 14 8	.....	286 5 1	

ABSTRACT.

Province.	Average in each Province.
	Rs. a. p.
Deccan...	303 9 3
Sind	253 10 1
Beluchistán	286 5 1
General Average ...	260 0 6

Superintendent's Office, Horse-breeding Operations, Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XVIII.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

General Statement showing Results of the year's Operations during the official year 1888-89.

Serial Number.	Provinces.	Mares covered. For Mule-breeding. During 1887-88.	Mares covered. For Mule-breeding. During 1888-89.	Mares covered. Donkey Mares for Donkey-breeding. During 1887-88.	Mares covered. Donkey Mares for Donkey-breeding. During 1888-89.	Number of Government Donkey Stallions employed in the Stud-work. During 1887-88.	Number of Government Donkey Stallions employed in the Stud-work. During 1888-89.	Average number of Mares covered during 1888-89 per Stallion employed in the year.	Mules by Government Donkey Stallions foaled during the year. Colt Mules. Arab.	Khorásán.	Cyprus.	Italian.	Bokhára.	Khurdistán.	Persian.	Total.	Filly Mules. Arab.	Khorásán.	Cyprus.	Italian.	Bokhára.	Khurdistán.	Persian.	Total.	Grand Total.	Number of Mares covered in 1887-88 the results of which are known.	Number of Government Donkey Stallions employed in 1887-88 the results of which as regards coverings are known.	Percentage of produce foaled during 1888-89 to Mares covered in 1887-88.	Average number of produce foaled during 1888-89 per Stallion employed in 1887-88.
1	Deccan ...	52	47	...	...	3·00	2·15	21·86	...	...	...	6	...	...	...	6	...	...	...	6	...	...	...	6	12	47	2·00	25·53	6·
2	Sind... ...	751	838	...	...	18·22	19·25	43·53	6	1	14	16	1	...	13	51	1	...	6	3	...	...	20	30	81	315	7·12	25·71	11·37
3	Beluchistán ...	16	5	...	...	4·00	·78	6·41	...	...	...	5	...	...	...	5	...	...	...	5	...	...	...	5	10	16	4·	62·5	2·5
	Total ...	819	890	...	...	25·22	22·18	40·12	6	1	14	27	1	...	13	62	1	...	6	14	...	...	20	41	103	378	13·12	27·24	7·85

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XIX.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Statement showing the Horse Shows held during the year 1888-89.

No.	Station.	Date.	Number exhibited.	Prizes.		Other Expenses incurred.	Total Expenses.	Portion thereof paid by Government.	Remarks.
				Number.	Value.				
					Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Poona	4th October 1888	425	142	4,741 4 0	1,927 11 6	6,668 15 6	3,330 0 0	
2	Rájkot	11th to 17th December 1888 ...	355	80	1,015 0 0	1,251 8 11	2,266 8 11	600 0 0	
3	Bhúj	4th to 7th March 1889 ...	258	39	567 15 1	314 2 8	882 1 9	.....	
4	Jacobabad	7th to 9th January 1889 ...	1,078	225	4,200 0 0	980 11 2	5,180 11 2	1,500 0 0	
5	Sibi	11th to 15th February 1889 ...	874	180	2,240 0 0	586 6 0	2,826 6 0	*1,000 0 0	*This sum is paid by the Government of India.
6	Ahmedabad	28th March 1889	634	75	2,640 0 0	1,572 9 8	4,212 9 8	2,000 0 0	
		Total ...	3,624	741	15,404 3 1	6,633 1 11	22,037 5 0	8,430 0 0	

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XX.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Statement of Expenditure during the official year 1888-89.

Number.	Heads of Expenditure.	Pay.	Travelling Allowance.	Service Stamps.	Telegrams.	Office-rent.	Petty Supplies.	Carriage of Tents and Office Records.	Cost of Feed, &c., &c.				Grand Total.	Remarks.
									Debited to Local Funds.	Debited to Provincial.	Paid by Government of India.	Total.		
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Superintendent	4,800 0 0	1,735 6 1	.....	...	.....	.....	.....	.....	.....	.....	.....	6,535 6 1	
2	Office Establishment... ...	2,047 0 0	852 9 0	.....	...	.....	.....	.....	.....	.....	.....	.....	2,899 9 0	
3	Inspectors	1,607 1 7	462 7 7	.....	...	.....	.....	.....	.....	.....	.....	.....	2,069 9 2	
4	Castrators	1,320 0 0	174 4 0	.....	...	.....	.....	.....	.....	.....	.....	.....	1,494 4 0	
5	Office expenses	.....	.....	100 0 0	37 8 0	237 5 4	15 15 3	607 11 0	.....	.....	.....	.....	998 7 7	
6	Stallions' keep, &c.	.....	.....	.....	...	.....	.....	.....	13,153 3 9	20,290 7 5	5,020 8 3	38,464 3 5	38,464 3 5	
7	Donkeys' do.	.....	.....	.....	...	.....	.....	.....	2,694 9 2	3,378 0 8	225 14 8	6,298 8 6	6,298 8 6	
8	Stallions' purchase	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	700 0 0	
9	Horse Shows	.....	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	8,430 0 0	
	Total ...	9,774 1 7	3,224 10 8	100 0 0	37 8 0	237 5 4	15 15 3	607 11 0	15,847 12 11	23,668 8 1	5,246 6 11	44,762 11 11	67,889 15 9	

Superintendent's Office,
Horse-breeding Operations,
Poona, 8th July 1889.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

BOMBAY: PRINTED AT THE GOVERNMENT CENTRAL PRESS.

Annual Administration Report of the Department of Horse-Breeding Operations for 1888-89.

No. 6640.

REVENUE DEPARTMENT.

Bombay Castle, 6th September 1889.

Letter from the Superintendent, Horse-Breeding Operations, No. 860, dated 8th July 1889—Submitting the Annual Administration Report of the Department of Horse-Breeding Operations in the Bombay Presidency and Beluchistan for the year 1888-89.

RESOLUTION.—During the year under review Mr. Grainger visited various places in the districts marginally noted and in Sind to inspect stallions and to brand mares brought to him by breeders. He also visited Deesa and was present at the Horse-Shows held during the year at Poona, Rájkot, Jacobabad, Sibi, Bhuj and Ahmedabad. The following table shows the results of the working of the Department as regards the branding of mares:—

Poona. Nasik. Ahmednagar. | Khándesh. Ahmedabad. Kaira.

	Number branded in 1887-88.	Number branded in 1888-89.			Total Number of branded mares on Register.		
	Total of Horse and Pony.	Horse.	Pony.	Total.	Horse.	Pony.	Total.
Deccan	835	45	420	465	1,131	4,718	5,849
Gujarát and Káthiáwár ...	141	4	109	113	1,248	870	2,118
Sind and Cutch	471	154	2	156	2,008	111	2,119
Beluchistan	70	22	...	22	579	13	592
Total ...	1,517	225	531	756	4,966	5,712	10,678

It appears from these figures that there was a very considerable falling off in the number of mares branded during 1888-89 as compared with the number branded in 1887-88. When contrasted with the number branded in 1886-87 the results of the year under review appear still more unsatisfactory. Mr. Grainger is of opinion that while in Sind the cause of horse-breeding is progressing favourably there is no improvement in the Deccan or Gujarát. He however explains that the decrease in the number of mares branded during the year under review is to be attributed to causes which are from their nature temporary. The scarcity of fodder and the general bad season affected mares, in common with all other stock, so injuriously that with a view to the success of breeding operations, Mr. Grainger did not deem it advisable to brand many of the animals brought to him. His explanation on this point may be regarded as satisfactory.

2. His Excellency in Council has read with interest Mr. Grainger's remarks with reference to the buying up of young stock by "Daláls," and the result of his investigations should be noticed in the report for the current year.

The question of the purchase of branded mares by officers commanding mounted corps is one which has already been dealt with by Government in Resolution No. 2513, dated the 28th March 1883. The Military Department should be asked to furnish a return shewing the number of country-bred mares and of mares carrying the Government brand (with the age of each at the time of purchase) now in the Bombay Cavalry Regiments. It is presumed that the reason why none of the young stock purchased by Captain Webb was sent to the newly-established depôt at Ahmednagar was that arrangements had not then been made for the reception of the selected animals.

3. The number of stallions serving at the end of the year 1887-88 was 103, of whom 59 were horses and 44 ponies. During the year under review five horses were added to this number, three died from various causes, one was destroyed and eight were sold as having become unfit for stud purposes. The number on the register at the end of the year was 96 and Mr. Grainger remarks that there will be no need for the present to make any addition to it. With reference to this Mr. Grainger's attention should be drawn to Government Resolution No. 8318, dated the 13th December 1888, by which the number of horse and pony stallions required for the Presidency was fixed at 95. It is satisfactory to notice that 62 of the 96 stallions now standing are classed as "very good." In accordance with the instructions given in paragraph 2 of the review of last year's report Mr. Grainger has submitted a statement showing the distribution of the horse and pony stallions throughout the Presidency. From this it appears that the services of the stallions at many places, notably those given in the margin, were not availed of to anything like the full extent desirable. In view of the very small number of mares covered by each stallion at Dhárwár it seems open to question whether some of those standing there might not be transferred to other places where their services would be more frequently availed of. Mr. Grainger should favour Government with his opinion on this point.

Bijápur.	Násik.
Dhárwár.	Shirpur.
Dahivadi.	Chopda,
Koregaon.	Mirpur.

4. The total number of mares covered during the year was 3,282 as against 3,578 in 1887-88, the decrease being partly due to a reduction in the number of stallions. The average number covered per stallion was 35·53 as compared with 35·10 in the previous year. The services of the stallions were therefore more frequently availed of in the year under review than in 1887-88. Mr. Grainger has not however explained why the stallions at the places mentioned in the last paragraph did not cover a proper complement of mares. In future an explanation should be given in every case when the number is below what Mr. Grainger considers satisfactory. The results of the coverings of mares in 1887-88 were ascertained in 2,762 cases and the percentage of foals to mares covered was 37·32 as against 37·42 in the previous year. His Excellency in Council regrets to notice that these figures still continue to remain unsatisfactory.

5. As regards castration the Governor in Council is glad to observe that some improvement is noticeable. The number of salutris has been reduced from 4 to 3, but notwithstanding this 98 colts were castrated during the year under review as against 76 in 1887-88. The increase was most marked in Poona, Ahmednagar and Ahmedabad. The cost of these operations to Government amounted to Rs. 1,494-4-0 as against Rs. 1,525 in 1887-88. The number of country-bred horses purchased during 1888-89 for use in this Presidency as remounts was 390, the majority being for the Bombay Native Cavalry. Some were also bought for other Presidencies.

6. There is nothing that calls for remark as regards the donkey-stallions. The number now standing is 23, being two less than the number which Government have fixed as required for the Presidency. With the exception of one which is at Sirur all of them are stationed in Sind. The general results of their coverings during the year under review can hardly be regarded as adequate,

seeing that although they covered 890 mares as against 819 in 1887-88 the increase in the number of foals produced was only 27 and apparently only about one in every nine mares covered produced a foal.

7. The financial results of the working of the Department during the year 1888-89 were also more satisfactory than those of the previous year. The total expenditure of the year amounted to Rs. 67,889-15-9 showing a decrease of Rs. 10,071-9-7 as compared with that of 1887-88. The amount debited to Provincial Funds was Rs. 45,795-11-11, the corresponding sum last year being Rs. 49,645-10-0. There is a decrease under each head of expenditure except that of donkey stallions' keep. The sources of the contributions towards Horse-Shows should have been given in detail in Appendix XIX.

Superintendent and Establishment.	Rs.	13,997	3 10
Stallions' keep...	„	20,290	7 5
Donkeys' „	„	3,378	0 8
Stallions' purchase	„	700	0 0
Horse-Shows	„	7,430	0 0
	Rs.	45,795	11 11

8. The acknowledgments of Government are due to the officers mentioned in paragraph 64 of the report—Colonel Hogg, Mr. R. Giles and Mr. Adams—for the assistance they have given in furtherance of the operations of the department.

J. De C. ATKINS,
Acting Under Secretary to Government.

To

The Superintendent, Horse-Breeding Operations,
The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
The Commissioner in Sind,
All Collectors, including the Collectors and Deputy Commissioners in Sind,
The Director of Land Records and Agriculture,
The Principal, Bombay Veterinary College,
The Accountant General,
The Military Department of the Secretariat,
The Political Department of the Secretariat,
} With copies of the report.

The Secretary of State for India,
The Government of India.
} By letter.

No. of 1889.

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